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YDHAVQC/CINCEUR
YHLAKAC/USARPAC
AFSCC
AFSSO PACAF
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TOP SECRET

CITE NPIC 6731.

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CONTINUING ANALYSIS DISCLOSES THAT THE PREVIOUSLY REPORTED

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TOP SECRET

GROUP 1
Excluded from automatic
downgrading and
declassification

HARDENED PROBABLE NEAR-SURFACE COMMUNICATIONS ANTENNAS IN THE MOSCOW AREA, USSR ARE LOCATED IN THREE QUADRANTS - THE SE, SW AND NW. SUFFICIENT ANALYSIS HAS BEEN ACCOMPLISHED TO DETERMINE THAT THE ANTENNAS IN THE SE QUADRANT (RAMENSKOYE), AND THOSE IN THE SW QUADRANT (NARO-FOMINSK), PROPAGATE DIRECTIVE PATTERNS THAT HAVE BEEN JUDICIOUSLY ORIENTED TO INTERSECT ALL OF THE SA-1 SITES IN THEIR RESPECTIVE QUADRANT. THOSE IN THE NW QUADRANT (NOVO-PETROVSKOYE) HAVE NOT BEEN ANALYZED BUT A VISUAL INSPECTION INDICATES THEY ARE SIMILARLY ORIENTED FOR THAT QUADRANT. EACH ANTENNA PROPAGATES FOUR RAYS AND THUSLY COULD INTERSECT FOUR SITES. MOST INTERSECT ONLY THREE SITES, HOWEVER, BECAUSE THERE MAY BE NO SA-1 SITES ON THE FOURTH SIDE (THE MOSCOW SIDE). WHERE THERE IS, HOWEVER, IT IS ALSO INTERSECTED.

ANALYSIS CONDUCTED TO DATE INDICATES THAT EACH ANTENNA IS COMPOSED OF TWO SUBSURFACE GRIDS ARRANGED IN AN OVER-AN-UNDER FASHION. EACH GRID APPEARS TO BE COMPOSED OF NUMEROUS PARALLEL DIPOLES. THE LOWER GRID IS SIMILARLY CONSTRUCTED BUT THE DIPOLES ARE POSITIONED AT RIGHT ANGLES TO THE UPPER GRID. THE TOTAL EFFECT RESEMBLES SCREEN WIRE IN APPEARANCE. THE UPPER GRID PROPAGATES BIDIRECTIONALLY AS DOES THE LOWER GRID.

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HARDENED ANTENNAS IN THE NE QUADRANT HAVE NOT YET BEEN OBSERVED BUT THE HARDENED CONTROL BUNKER WITH WHICH THESE ANTENNAS ARE ASSOCIATED HAS BEEN IDENTIFIED. THE HARDENED ANTENNAS ARE OF RECENT CONSTRUCTION AND SOME ARE STILL UNDER CONSTRUCTION SO THEY MAY YET BE CONSTRUCTED IN THE NE QUADRANT. ALSO, THE PROJECTION OF THE PATTERN OF CERTAIN ANTENNAS IN ONE QUADRANT EXTEND INTO THE NEIGHBORING QUADRANT. IT IS POSSIBLE THEREFORE THAT PROJECTIONS INTO THE NE QUADRANT FROM THE NW AND SE QUADRANT MAY ELIMINATE THE NEED FOR A SEPARATE GROUP THERE.

THE EXTENSION OF ONE PROJECTION INTO A NEIGHBORING QUADRANT MAY ALSO BE JUDICIOUS. THAT IS, IF A CONTROL CENTER IS LOST IN ONE QUADRANT, CERTAIN SITES CAN BE CONTACTED FROM THE ADJOINING QUADRANT.

A DETAILED REPORT ON THESE FACILITIES IS IN WORK.

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